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Docket No. SAIC0079

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Seema SUD, et al.

Group Art Unit: 2661

Serial No.: 10/689,765

Examiner: To Be Assigned

Filed: October 22, 2003

For: ADAPTIVE FILTERING IN THE PRESENT OF MULTIPATH

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 AND 1.98**

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window, Mail Stop Amendment  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

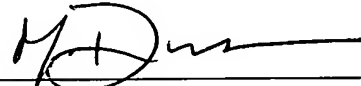
In accordance with the requirements of 37 C.F.R. §§ 1.56, 1.97-1.98 and MPEP § 609, the references noted on the attached form PTO-1449 are hereby brought to the attention of the Examiner.

No fees are believed to be necessary since the references cited in this statement are being submitted before the First Office Action. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 or 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 501458. A duplicate copy of this letter is submitted herewith for that purpose.

The above information is presented so that the United States Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. §§ 1.104(a) conferring the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,

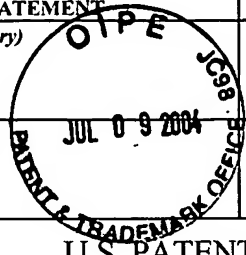
Date: 08 July, 2004

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Form PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent & Trademark Office	Atty. Docket No. <b>SAIC0079</b>	Serial No. <b>10/689,765</b>
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		Applicant <b>Seema SUD, et al.</b>	
		Filing Date <b>October 22, 2003</b>	Group <b>2661</b>



**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)

**FOREIGN PATENT DOCUMENTS**


**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

		Ricks and Goldstein, "Efficient Architectures for Implementing Adaptive Algorithms," <i>Proceedings of the 2000 Antenna Applications Symposium</i> , Allerton Park, Monticello, Illinois, pp. 29-41, September 20-22, 2000
		Goldstein, J. Scott, et al., "A Multistage Representation of the Wiener Filter Based on Orthogonal Projections," <i>IEEE Transactions on Information Theory</i> , Vol. 44, No. 7, pp. 2943-2959, November, 1998
		Goldstein, J. Scott, et al, "A Reduced Rank MMSE Receiver for a DS-CDMA System in Frequency Selective Multi-Path," <i>IEEE Military Communications Conference</i> , pp. 1109-1113, October 28-31, 2001
		Goldstein, J. Scott, et al, "MMSE Correlator Based Rake Receiver for DS-CDMA," <i>IEEE Military Communications Conference</i> , pp. 1418-1422, October 28-31, 2001

**EXAMINER**

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.